Index of subjects

AR10 stripping emulsions, use with isotopes, 177

Cellular sieving by a natural high-flux membrane, 331
Ceramics,
  calcium aluminate glasses, 257
  characterization of the surface topography, for industry, 275
  creep, and creep fracture behaviour, 249
  ion-beam thinning characteristic, 239
  lead dioxide on titanium substrate, 275
  non-ohmic oxide materials, 285
Crystallization of calcium aluminate glasses, 259
Cutting wood specimens for SEM, 319

Direct-view confocal microscope, 107

Electron energy loss spectroscopy,
  quantitation of, 37
  silicon carbide ceramic, identification of second phase regions, 49
Electron microscopy,
  freeze-drying device, 295
  lead dioxide on titanium substrate, 265
  whole-cell preparation, 183
  uranyl sulphate staining, 313
  vitrification of water, RP3
Energy dispersive X-ray microanalysis of casein micelles, 291
Etching behaviour of silicon carbide compacts, 227

Freeze-drying device, 295

Glutaraldehyde fixation, effects on lung cells, 189

Heart myocytes, case study, 135
High resolution microscope photometry, procedure for discrimination of chromosome bands, 163

Ion-beam thinning of ceramics, 239
Ion-beam sputtering, RP1
Isotopes, use with AR10 stripping emulsions, 177

Macrophages, measurement by SEM photogrammetry, 155
Metallic aerosol condensates, evaporation behaviour of, 89
Microcomputers,
  for stereology, 219
  for stereogrammetry, 77
Microscope photometry, application of voltage to frequency conversion, 211
Microspectrophotometric studies of Romanowsky stained blood cells, 197
Microvascular dimensions recorded with rotating mirror microscope, 169
Multichannel pulse height analyser, application to SEM, 69

Osmotic properties of lung cells, effects of fixation, 189
Osmium tetroxide fixation, effects on lung cells, 189

Polarizing light microscopy, intestinal, 305

Quantimet 720 image computer, application of, 327

Romanowsky staining, 197
Rotating mirror microscope, 169

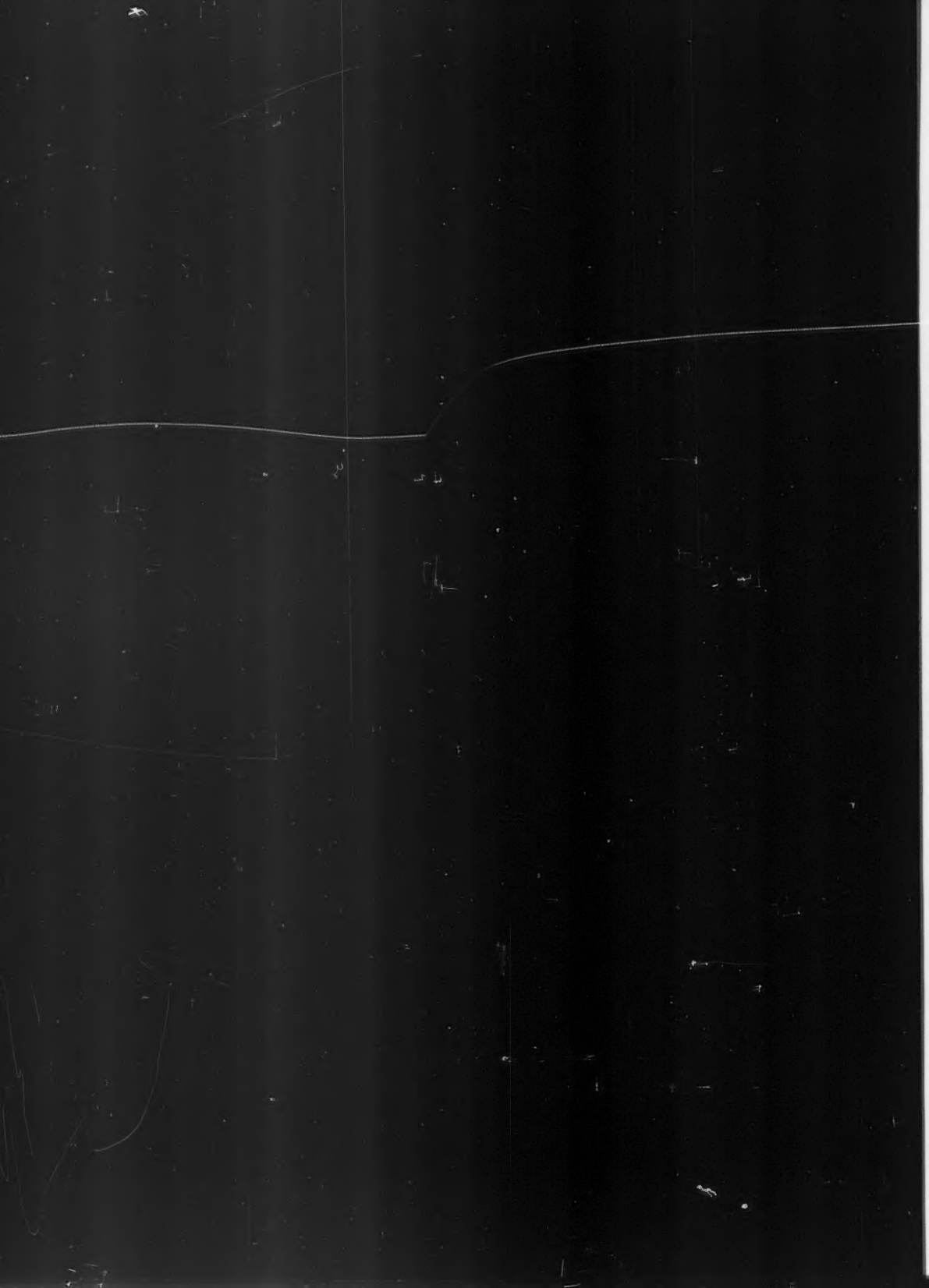
Scanning electron microscopy,
  application of electron backscattering, 57
  application of multichannel pulse height analyser, 69
  characterization of ceramic surfaces, 275
  lead dioxide on titanium substrate, 267
  lichen weathering of rock-forming materials, 95
  measurement of atomic number and composition, 57
  photogrammetry, application, of, 155
Scanning transmission electron microscopy
  quantitative X-ray microanalysis, 3
  study of supported ruthenium catalysts, 15
  study of steels and iron-base alloys, 23
Scintillation electron-detector, quantitative and theoretical studies, 119
Shadow photography, 335
Specimen heating during sputter-coating, 143
Stereogrammetric analysis by microcomputer, 77
Stereology, use of microcomputer, 219

Topography, cell surface, 275

Uranyl sulphate, application to EM, 313

Vitrification of water for electron microscopy, RP3
Voltage to frequency conversion, in microscope photometry, 211

Whole-cell preparation, in EM, 183



Index of authors

Aizu, S., 183

Bachofen, H., 189
Bacus, W., 197
Ball, M.D., 57
Baumrucker, C.R., 291
Bottiroli, G., 211
Bourdillon, A.J., 49
Briarty, L.G., 219
Buckle, E.R., 89

Comins, N.R., 119
Crosby, P., 143

Dubochet, J., RP3
Duncan, G.H., 295

Edgerton, H.E., 335
Estis, L.F., 313

Fackler, K., 305
Farmer, M.E., RP1
Fischer, P.J., 219
Freitas, M.I., 211

Galbraith, W., 197
Gallant, P.E., 275
Gaskell, S.A., 327
Gilroy, D., 265
Giordano, P.A., 211

Hall, M.G., 69
Hara, A., 169
Haschemeyer, R.H., 313
Hayward, B.S., 135
Hiltner, A., 305
Howell, P.R., 23

Ingram, P., RP1
Itoh, T., 183

Jepps, N.W., 49, 227
Jones, D., 95
Jones, I.P., 3
Joy, D.C., 37

Klein, L., 305
Kolar, D., 285
Kraševec, V., 285
Kristensen, S.E.L., 155
Krivanek, O.L., 49
Krueger, J.W., 135
Kučera, L.J., 319

Linton, R.W., RP1

Loretto, M.H., 3

Maher, D.M., 37
Marquis, P.M., 239, 257
Marshall, P.N., 197
McCartney, D.G., 57
McDowall, A.W., RP3
McHardy, W.J., 95
Merigold, R.J., 275

Navarro, E.F., 197

O'Brien, T.L., 291

Page, T.F., 77, 227
Papadimitriou, J.M., 155
Pearse, A.D., 327
Pennycook, S.J., 15

Ricks, R.A., 23
Robards, A.W., 143
Roberts, I.M., 295
Roberts, S.G., 77
Robinson, T.F., 135

Salehpoor, B., 239
Sanderson, J., 177
Sharp, J.C., 163
Shelburne, J.D., RP1
Sheppard, C.J.R., 107
Skaer, R.J., 331
Skinner, G.K., 69
Sommer, J.R., RP1
Sonnenblick, E.H., 135
Southwick, P.D., 23
Stevens, R., 265
Stobbs, W.M., 49

Thirlwall, J.T., 119
Trontelj, M., 285
Tsakiropoulos, P., 89

Wall, J.S., 313
Wangensteen, D., 189
Wayne, A.W., 163
Weibel, E.R., 189
Wilshire, B., 249
Wilson, A.J., 143
Wilson, M.J., 95
Wilson, T., 107
Wittenberg, B.A., 135

Yamamoto, T.Y., 183